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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,624	09/29/2004	Chiu-Tsung Huang	9919-US-PA-1	5623

31561 7590 07/05/2005

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE
7 FLOOR-1, NO. 100
ROOSEVELT ROAD, SECTION 2
TAIPEI, 100
TAIWAN

EXAMINER

TRA, ANH QUAN

ART UNIT	PAPER NUMBER
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2816

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/711,624

Applicant(s)

HUANG ET AL

Examiner

Quan Tra

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

This office action is in response to the amendment filed 05/23/05. Applicant's arguments are not persuasive. The rejections in previous office action are maintained.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 1, lines 8-10, and the specification page 6 recite that the gate and drain of the transistor are applied with Vcc and the source of the transistor is applied with ground voltage. However, the transistor is fully ON when Vcc is applied to its gate. The drain and source of the transistor is shorted together. Therefore, the transistor will be damaged with the potential of its drain and source are applied with different voltage potential.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Storino et al. (USP 6150869).

Storino et al.'s figure 3 discloses a method of operating a silicon-on-insulator device, wherein the silicon-on-insulator device includes a transistor (112) and a control transistor (116) such that the transistor and the control transistor share a common source region and the drain region of the control transistor is electrically connected to the main body of the transistor, the operating method comprising the following steps: switching the transistor on by: applying a bias voltage V_{cc} (leakage V_{DD} via transistor 110) to the drain terminal and the gate terminal of the transistor (when CLK is low or 0V) and applying 0V to the source terminal of the transistor and the gate terminal of the control transistor, thereby terminating electrical connection between the main body of the transistor with the source terminal of the transistor so that the transistor has a characteristic of floating-body silicon-on-insulator device, and switching the transistor off by: applying a bias voltage V_{cc} (V_{dd} via 110) to the drain terminal of the transistor and the gate terminal of the control transistor and applying 0V to the gate terminal and source terminal of the transistor (when CLK is high or at V_{dd} , and A and B are high) thereby forming an electrical connection between the main body of the transistor and the source terminal of the transistor so that the transistor has a characteristic of non-floating body silicon-on-insulator device.

Response to Arguments

Response to the argument regarding to the 112(1) rejection: If the drain of transistor 102 is connected to V_{DD} and the source is connected to ground, transistor 102 will short V_{DD} and ground when it is turned on, and the transistor will be damaged.

Response to the arguments regarding to the 102(b) rejection: Applicant argues that NFET 112 and NFET 116 of Storino does not share common source. The Examiner respectfully disagrees. It is notoriously well known that the drain and source of FET are interchangeable, and current flows from drain to source of NFET. In Storino's figure 3, current flows from the body of transistor 112 to ground via transistor 116. Therefore, terminal of transistor 116 that coupled to ground is the source of transistor 116. Thus, figure 3 shows that NFET 112 and NFET 116 share common source.

Storinos' figure 3 shows that when CLK is low, VDD is applied to the gate of transistor 112 via transistor 106, the bias voltage VDD is also applied to the drain of transistor 112 via transistor 110, ground voltage is applied to the source of transistor 112, and transistor 116 is off. When CLK is high, ground voltage is applied to the gate of transistor 112 via transistors 102, 104 and 108, VDD is applied to the drain of transistor 112 via transistor 110, ground is also applied to the source of transistor 112, and transistor 116 is on. Thus, figure 3 anticipated all limitations of the claim.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan Tra whose telephone number is 571-272-1755. The examiner can normally be reached on 8:00 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



QUAN TRA
PRIMARY EXAMINER
Art Unit 2816

June 28, 2005